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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 2116 10/635,864 08/06/2003 Donald R. Loveday 1999U026.US-CON3 EXAMINER 25959 7590 02/07/2005 UNIVATION TECHNOLOGIES LLC CHEUNG, WILLIAM K 5555 SAN FELIPE, SUITE 1950 PAPER NUMBER ART UNIT HOUSTON, TX 77056 1713

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) F THE MAILING DATE of this communication appears on the cover sheet with the correspond for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) F THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be waitable under the provisions of 37 GFR 1.138(a). In no event, however, may a reply be limely fit after SIX (6) MONTH'S from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTH'S from the mailing date of this communication of the provision of 37 GFR 1.704(b). Status 1) ★ Responsive to communication(s) filed on 14 October 2003. 2a) ★ This action is FINAL. 2b) ★ This action is non-final. 3) ★ Since this application is in condition for allowance except for formal matters, prosectosed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O Disposition of Claims 4) ★ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) ★ is/are withdrawn from consideration. 5) ★ Claim(s) 1-13 is/are rejected. 7) ★ Claim(s) ★ is/are allowed. 6) ★ Claim(s) ★ is/are rejected. 7) ★ Claim(s) ★ is/are rejected. 7) ★ Claim(s) ★ is/are rejected. 8) ★ Claim(s) ★ is/are rejected to. 8) ★ Claim(s) ★ is/are allowed. 10) ★ The specification is objected to by the Examiner. 10) ★ The province of the province of the province of the drawing(s) be held in abeyance. See 37 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected in the order of the province of the priority under 35 U.S.C. § 119(a)-(d) a) ★ All b) ★ Some ★ Old None of: 1. ★ Certified copies of the priority documents have been received. 2. ★ Certified copies of the priority documents have been received in Application No. A Copies of the certified copies of the priority documents have been received. A Chatchment(s) 1) ★ Notice of References Cited (PTO-892)	pplicant(s)
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2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) Faper Notice of Informal Date	

Art Unit: 1713

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-13 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of copending Application No. 10/772,823. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-13 of instant application and claims 1-15 of copending Application No. 10/772,823 are related a genus and its species.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The examiner does not know the relationship of bimodal polyethylene of claim 1 with the pipe features in the claims.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 1-13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Martin et al. (US 5,306,775).

The invention of claims 1-13 relates to a bimodal polyethylene comprising ethylene derived units and units derived from at least one of a C₄ to C₁₂ olefin; wherein the polyethylene has a density of from 0.940 to 0.970 g/cm³; an I₂₁/I₂ of 80 or more; a residual Group 4 metal content of 2.0 ppm or less; a M_w/M_n of from 20 to 60; and wherein the polyethylene comprises a high molecular weight component and a low molecular weight component, the high molecular weight component present from 40 to 60 weight percent based on the total polyethylene, and wherein the high

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molecular weight component has a weight average molecular weight Mw of greater than 100,000 a.m.u.

Martin et al. (abstract) disclose a polyolefin blend composition having a density of 0.55 g/cm₃ comprising 30-70 weight percent of low molecular weight ethylene and 30-70 weight percent of high molecular weight polyethylene. Regarding the claimed weight average molecular weight of greater than 100,000 of claim 1, 150,000 of claim 3, and 200,000 of claim 4, the examiner believes that these broad molecular weight range limitations are inherently possessed in Martin et al. because, it is well-known in the art of polyolefin made by the polymerization process of Martin et al. to produce polyolefin in the claimed molecular weight range. Further, Martin et al. (col. 4, Table I; col. 5, Table II) disclose the melt indexes, density of the high molecular weight and low molecular weight polyethylene for the blend. Since the melt index of low molecular weight polyethylene can rang from 25 to 400 and the melt index of high molecular weight polyethylene can range from 0.1 to 50, the examiner has a reasonable basis to believe that the blend composition of the high and low molecular weight polyethylene would result the melt flow index ratio as claimed. Regarding the claimed polydispersity of from 20 to 60, in view of the substantially identical density and molecular weight range as claimed, the examiner has a reasonable basis to believe that the claimed polydispersity of claim 1, the melt flow ratio, the notch tensile properties, and the MD tear properties are inherently possessed in Martin et al. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show

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otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Regarding the product by process limitations of claim 13, applicants must recognize that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner WILLIAM K CHELING PRIMARY EXAMPLER

February 3, 2005